22716

26.2120

Y/001/61/000/002/001/001 D233/D304

AUTHOR:

Vujić, Miloš, Engineer, Docent

TITLE:

Effect of compressor characteristics on turbojet

engines

PERIODICAL:

Tehnika, no. 2, 1961, 267-275

TEXT: The article discusses the performance characteristics of turbojet engines with centrifugal and axial-flow compressors, with particular emphasis on the specific thrust and specific engine weight. Data presented by the author are based on theoretical principles and on the analysis of statistical data of a small number of turbojet engines in operation up to the middle of the past decade, since that was the period in which the superiority of axial-flow since that was more or less firmly established. The results precompressors was more or less firmly established. The results precompressors was more or less firmly established only as general information sented should, therefore, be considered only as general information on the subject. The comparison between the two types of compressors, made on the basis of the air-handling capacity per unit fron-

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Effect of compressor characteristics on turbojet engines

tal area, shows indisputably that axial turbojet engines can reach a maximum value of 7.000 kg/sq/m, while engines with centrifugal compressors can attain only a maximum of 3.000 kg/sq/m. Data on the specific thrust, which is the common criterion of jet engine performance, also favor axial-flow compressors. Engines with such compressors have attained a maximum thrust of 90 kg/kg/sec while centrifugal turbojet engines have a specific thrust of only 60 kg/kg/sec; a thrust of 80 kg/kg/sec is exceptional. Data on the specific weight do not actually show the greater efficiency of axial-flow compressors, since both, the axial and centrifugal turbojet engines have a specific weight ranging from 0.2 to 0.5 kg/kg. In the range of smaller thrusts, centrifugal turbojet engines have greater efficiency while in the range from 1.000 to 3.000 kg both types of engines have practically the same performance characteristics. In view of their considerable superiority, the last word on axial-flow compressors in turbojet engines has not yet been said,

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since their development and improvement is still in progress. There are 9 figures and 7 references: 1 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: M. Stephenson, Ten Years of Axial-Flow Jet Engines; H.S. Rainbow, The Design of Small Engines; M.Roy, Power Versus Weight in Aviation; F.H. Keast, Choice of Design for an Advanced Turbojet; W.T.G. Supersonic Turbojet. Abstracter's note: Since the English-language references are not dated, the "four most recent" could not be established and all 5 of them are quoted.

ASSOCIATION: Mašinski fakultet Univerziteta u Beogradu (Machine-

Building Faculty of Belgrade University)

SUBMITTED: June 1, 1960

Card 3/3

VUJIC, Milos Z., inzinjer, docent honorarni saradnik

Analysis of the efficiency of the compression and intake in jet engines depending on speed. Zbornik rad Mas inst SAN no.70:91-102 161.

l. Univerzitet u Beogradu i Masi ski institut Srpske akademije nauka i umetnosti.

(Airplanes) (Jet engines)

VUJIC, Milos Z., inzinjer, docent honorarni saradnik

Maximal energy of the jet at optimum pressure ratio, and the dependence of both the energy and ratio on flight conditions. Zbornik rad Mas inst SAN no.70:121-138 '61.

1. Univerzitet u Beogradu i Masinski institut Srpske akademije nauka i umetnosti.

(Airplanes) (Jets)

VUJIC, Milos Z., inzinjer, docent, honorarni saradnik

A critical view of some often accepted assumptions in the analysis of the influence of speed and height on the flow through the turbojet engine. Zbornik rad Mas inst SAN no.70:181-194 61.

1. Univerzitet u Beogradu i Masinski institut Srpske akademije nauka i umetnosti.

(Airplanes) (Cas flow)

VUJIC, MILOS 2.

REaktivni motori. 2. izd. preradeno i dopunjeno. Beograd, Tchnicka knjiga, 1951. 382 p. (Vazduhoplovna biblicteka, 10)

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Not in DLC

NESIC, Branislav; MLAKAR, Jelena; CONKIC, Bogoljub; VUJIC, Pavle

Aerosol lawage and its comparison with other methods in collecting material for the examination of M. tuberculosis. Tuberkuloza 15 no.3:376-382 J1-D'63.

l. Institut za tuberkulozy APV, Sremska Kamenica. Direktor: prof.dr. Stevan Goldman.

5

RADOVANOVIC, M,; VUJICA, I.

Problems in the use of natural water in 3 communities of the Serajevo district. Med. arh. 19 no.1:17-22 Ja-F '65

l. Institut za higijenu i socijalnu medicinu Medic iskog fakulteta u Sarajevu (Direktor: Prof. dr. G. Zarkovic) i Zavod za zdravstvenu zastitu sreza Sarajevo (Direktor: Dr.E. Turic).

WUJIC, S.; JOVANOVIC, M.

"Calculation of Reciprocating Compressors in Refrigerating Machines."
p. 69, (ZEORNIK, 1952/53. Beograd, Yugoslavia.)

SO: Monthly List of East European Accessions. (EEAL). IC,
Vol. 4, No. 5, May 1955. Uncl.

WIJICIC, G., dr. Prevention and control of infectious diseases in Serbia from 1945-1951. Bibl. Hig. inst. Srbije No.2:1-256 1953. (COMMUNICABLE DISEASES, prev. & control

in Yugosl.)

KOCIC, Julijana, inz., asistent (Novi Sad, Tehnoloski fakultet)
VUJICIC, Ivica, dr, docent

Modification of the fractionation process in the nitrogen substances of cheese in order to determine nitrogen according to micro-Kjeldahl technique. Tehnika Jug 18 no. 12: Supplement: Prehran ind 17 no. 12: 2315-2318 D '63

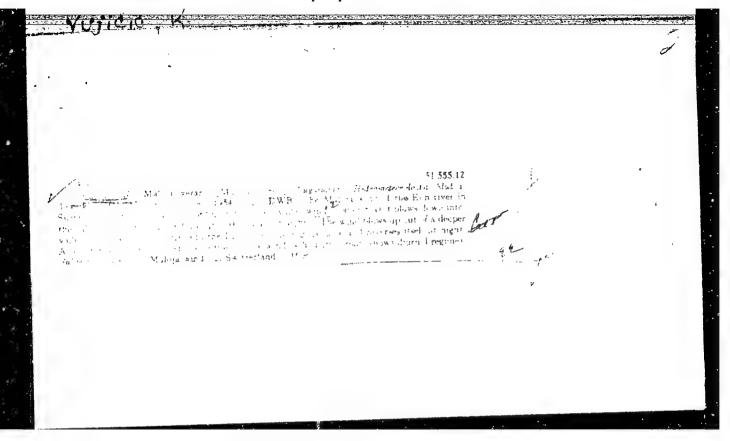
1. Tehnoloski fakultet u Novom Sadu (for Kocie).

2. Poljoprivredni fakultet u Novom Sadu (for Vujicic).

 VUJICIC, Ivica, dr. ing. assistant prof. (Novi Sad)

Method for the regulation of moisture loss in Trappist cheese during salting process. Tehnika Jug 16 no.10:1862-1863 0 '61.

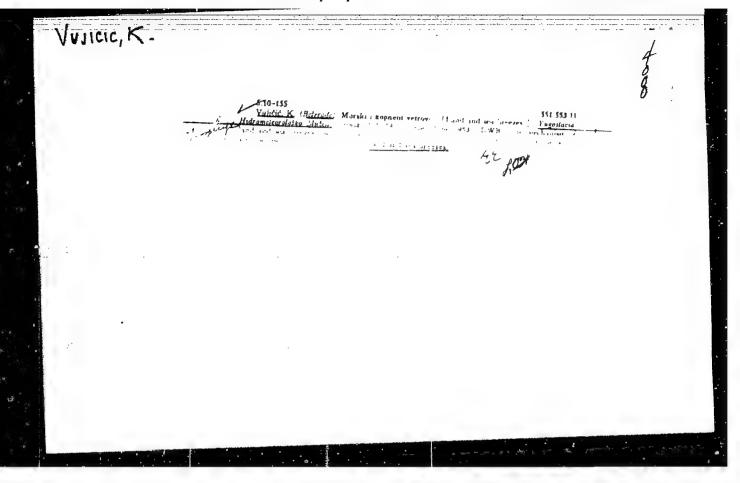
1. Faculty of Agriculture of the University of Novi Sad.



VUJICIC, K. Extraordinary weather phenomena in Yugoslavia, April-June, 1955. p. 107

Vol. 4, No. 3/4, July/Dec. 1955 VESNIK SCIENCE Beograd

So: East European Accession, Vol. 6, No. 3, March 1957



Society

3.11-33

Vujicie, Koviljka, Rad otseka aeroloske klimatologije aeroloske opservatorije SURPSu Beogradu. (Work of the aerological-climatological department of the aerological observatory SURPS (Union Management of the Hydrometeorologica Service), at Belgrade.) 3:97-99, 1950. In Serbian. DMB-The pilot balloon and nephoscope observations made at Yugoslavian stations were checked and tabulated and the aerological character stics determined. The important problem was the investigation of the dynamics of the air flow over Yugoslavia. However, a shortage of pilot balloons, hydrogen, and

experienced observers caused many difficulitées. In the summer of 1950 the observatory started photographic observations of the clouds. Subject Headings: 1. Aerological observations 2. Yugoslavia. N.T.Z.

VUJICIO, L.

"Productivity of Machinery and the Utilization of Raw Laterials" p. 325 (SUMARSKI HIST, Vol. 77, no. 7/6, July/Aug. 1953, Magreb, Mujoslavia)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, Nay 1954/Uncl.

VILLIGIC, L.

Development of the furniture industry in Yugoslavia after World War II Pt. 1 P. 301.

PRZEPYSL DRZERNY (Stowarzyszenie i Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland No. 4, April 1959

Honthly list of East European Accession Index (LEAI), IC Vol. 8, No. 11 November 1959 Uncl.

VUJICIC, L.

The development of the furniture industry in Yugoslavia after World War II. Pt. 2. Tr. from the Serbo-Croatian. p. 336.

PRZEMYSL DRZEWNY. (Centralne Zarzady Frzemslow: Drzewnego, Meblarskiego, i Lesnego i Stowrzyszenie Inzynierow i Technikow Lesnictwa i Drzewnictwa) Warszawa, Poland. No. 5, May 1959.

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 VUJICIC, Veljko A. (Beograd)

Identifying the trajectory of a particle of the variable mass as autoparallels. Zbornik rad Mat inst SAN 69:151-156 '60.

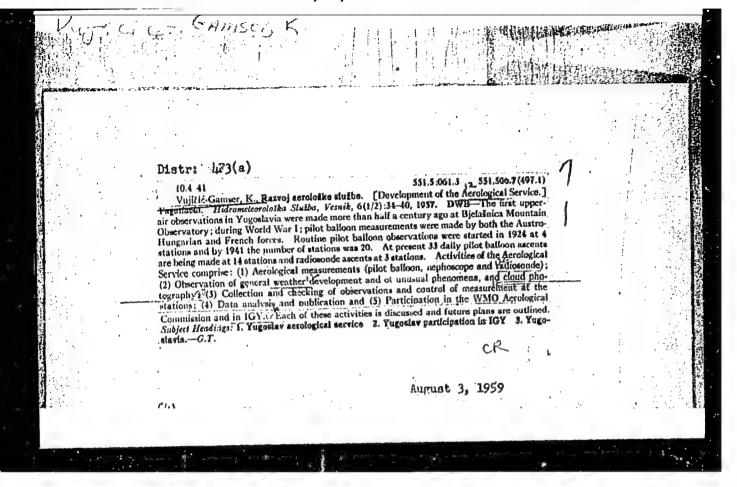
(ERAI 10:8)

(Dynamics) (Calculus of tensors)

(Spaces, Generalized)

#### "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001961220014-5



 MILANOVIC, D.; sanitetski pukovnik, dr.; VUJISIC, D., sanitetski pukovnik, dr.; ERCEGOVAC, N.; sanitetski pukovnik, dr.; CHINIC, K.; sanitetski pukovnik, dr.; CHINIC, K.; sanitetski potpukovnik, docent, dr.

Experience with the treatment of combined injuries of internal organs. Vojnosanit. pregl. 21 no.11:744-747 N 164

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Catechondroma femoris et pelvis permagnum. Voj. san. pregl.,
Beogr. 13 no.1-2:67-68 Jan-Veb 56.

1. Hirurska klinika VMA.

(OSTEDMA, femur & pelvis (Ser))

(FEMUR, neoplasms, osteoma, femoro-pelvic (Ser))

(PELVIS, meoplasms, same)
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: YUGUSLAVIA COUNTRY CATEGORY: Chemical Technology. Chemical Products and Their Applications, Food Industry.
ABS. JOUR.: AZENIE., 20.23 1959, No. 83971 : Vujicio, L. AUTHOR IF 3I, : Cheese Mite in Cheese end Casein TITLE ORIG. PUB. : Mijekarstvo. 1958, 8, No 2, 36-38 : To combat cheese mites, in addition to the ABSTRACT mechanical cleaning of cheese, it is washed with concentrated NaCl solution, with a mix-ture of alcohol and CSo (20:1) or with a 0.07% solution of dicloroethyl or dichloromethyl ether. Cheese mite may be destroyed by the imersion of cheese into water for several seconds at 650 temmerature. For the prevention of infection of cheese with mite it is recommended that cheese be stored at a temperature <10° and at a relative lumidity of < 80%. \_\_ Z. Lebedeve. 1/1CARD:

VUJICIC, Veljko, asistent. (Beograd, Studentski trg 3)

Some integrals of the equations of the movement of dynamically changeable bodies. Tehnika Jug 17 no.4:617-620 Ap '62.

1. Katedra za mehaniku i astronomiju Prirodno-matematickog fakulteta Univerziteta u Beogradu, Beograd.

# VUJICIC, Veljko, A. (Beograd)

Motion of a dynamically variable point in conformal space. Wes mat fiz Srb no.12:77-82 '60.

KAPOR, Gojko, sanitetski pukovnik docent dr.; VUJOSEVIC, Krsto: sanitetski potpukovnik dr.; MARCETIC, Vera, dr.

Our experience with valium.(Preliminary report.) Vojnosanit. pregl. 22 no.5:304-305 My 165.

WUJOSEVIC, Krsto, sanitetski potpukovnik dr.

Some forensic aspects of epilepsy in the army. Vojnosanit. pregl.
22 no.11:701-703 E '65.

### YUGOGLAVIA

I jubomic PASOVIC, Vers DJAJA and Milored VIJOSEVIC, Second Suzginat Clinic (II hiruraka klinika) Head Prof Dr Vollslav STGJAPOVIC, Medical Faculty of University of Belgrade.

"Benign Fulmonary Tumors,"

Belgrade, Srpaki Arhiv za Celokuono Lekaratvo, Vol 90, No 11, Nov 62; pp 1039-1049.

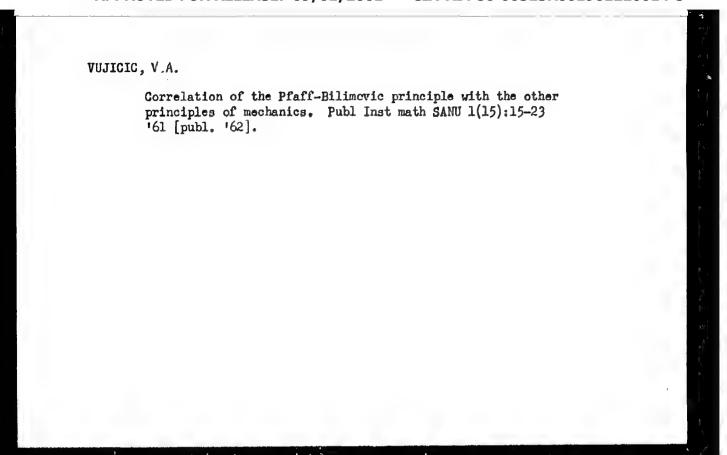
Abstract [German summary modified]: Discussion of published data, and vaview of authors' cases: I each of pulmonary fibrolipoma, chondrema, adenoma, 2 paimonary fibromes and an endabronchial adenoma. Six case reports, 22 Western and 2 Yugoslav (both Bin press) references.

12/1

BEK-UZAROV, Dorde (Beograd, Cvijiceva 63/90); HADZISEHOVIC, Munevera;
PALIGORIC, Dragica; VUJISIC, Branislav

Measurements of the beta radioactive sources in the Boris
Kidric Institute at Vinca. Tehnika Jug 17 no.11:Suppl.:
Radicizotopi zrac 1 no.11:2051-2056 N '62.

1. Saradnici Instituta za nuklearne nauke "Boris Kidric",
Beograd-Vinca.



JUZNIC, M.; VUJISIC, D.; JASOVIC, M.

The role of catheterization and angiocardiography in the diagnosis of congenital heart defects. Acta chir. Iugosl. 9 no.1:1-16.161.

1. Hirurska klinika Vojnomedicinske akademije u Beogradu (Nacelnik gen. prof. dr I. Papo).

(ANGIOCARDIOGRAPHY) (HEART CATHETERIZATION)

(HEART DEFECTS CONGENITAL diag)

VUJKOV, Stevan, Dipl. chem.

A new process in manufacturing washing powders. Kem ind 12 no.2:65-66 Fe '63.

l. "Albus", fabrika sapuna i hemijskih proizvoda, Novi Sad.

 DORDJEVIC, Slobodan; VUJKOVIC, Petar

Use of relaxants in the extraction of large enclaved foreign bodies in the esophagus. Srpski arh. celok. lek. 89 no.12:1465-1470 D '61.

1. Otorinolaringoloska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr Srecko Podvinec.

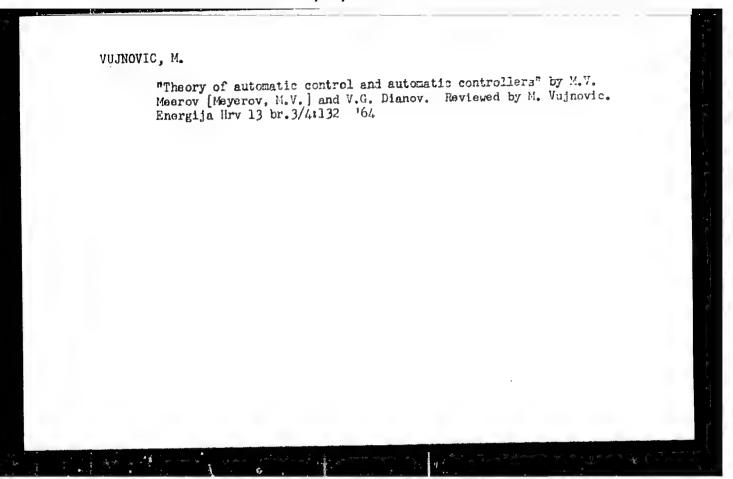
(ESOPHAGUS for bodies) (MUSCLE RELAXANTS ther)

STOJILJKOVIC, Srboljub, doc., dr.; POLEKSIC, Joko, dr.; VUJKOVIC, Petar, dr.; MILOVANOVIC, Dimitrije, dr.; STANOJEVIC, Natasa, dr.; POPOVIC, Milan, dr.

Modern non-convulsive electric shock therapy of mental disorders. Med. glasn. 14 no.12:543-547 D  $^160$ .

1. Neuropsihijatriska klinika Medicinskog fakulteta u Beogradu (Upravnik: prof. dr U. Jekic).

(SHOCK THERAPY ELECTRIC)



VUJNOVIC, M.

"Problems of automation and relaying in electric power systems." Reviewed by M. Vujnovic. Energija Hrv 13 no.5/6:198 '64

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## VUJNOVIC, M. "Lexicon of High Frequency, Broadcasting, and Electrical Engineerings" by C. Rint. Reviewed by M. Vujnovic. Energija Hrv 10 no. 9/10:ju6 '61.

### VUJNOVIC, Momir, inz. (Zagreb)

Methods of detecting and signaling the freezing of transmission lines. Energija Hrv 12 no.5/6:141-147 163.

1. Institut za elektroprivredu, Zagreb, Proleterskih brigada 37.

VUJNOVIC, Momir

"Cellected works of the Yugoslav Seminar on Regulation, Measurements, and Automation, 1963." Vol.1. Reviewed by Momir Vujnovic. Energija Hrv 12 no.5/6:188 \*63.

WUDNOVIC, M., inz.

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Hrv 11 no.11/12:416 '62.

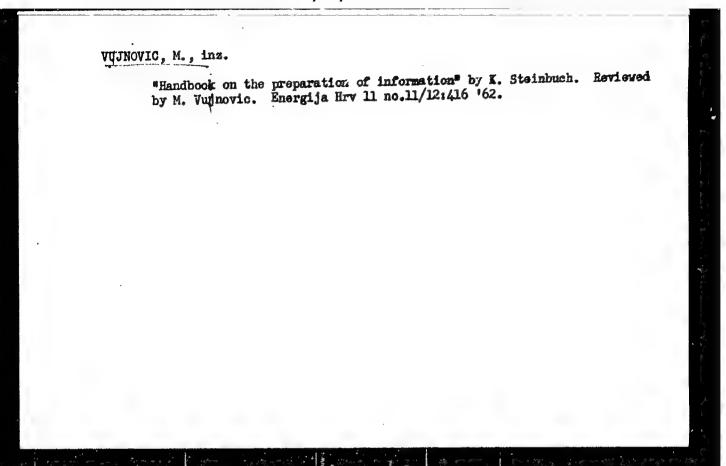
### "APPROVED FOR RELEASE: 09/01/2001

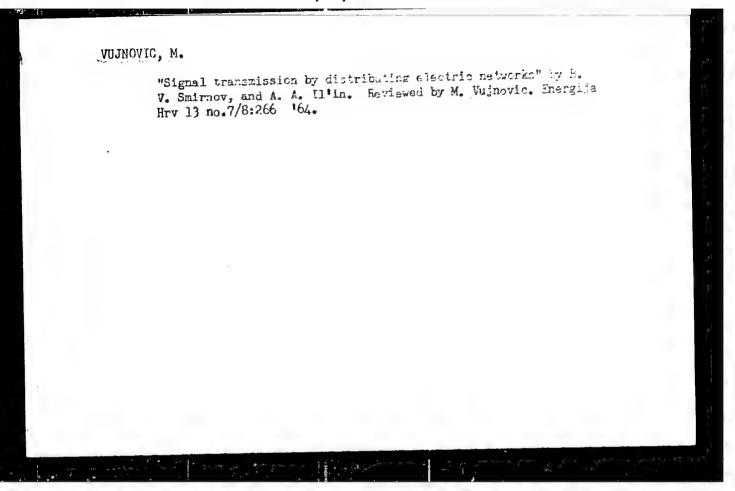
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VUJNOVIC, M., dipl. inz.

"Connecting systems in electric power engineering" by Z. Vistricka. Pt.2. Reviewed by M. Vujnovic. Energija Hrv 12. no.11/12: 382 '63.

# WUJNOVIC, M., inz. "Handbook on high-frequency technique" by H.Meinke and F.W. Gundlach. 2d ed. Reviewed by M.Vujnovic. Energija Hrv 11 no.7/8:256 '62.





VUJNOVIC, Momir, dipl. inz. (Cagreb)

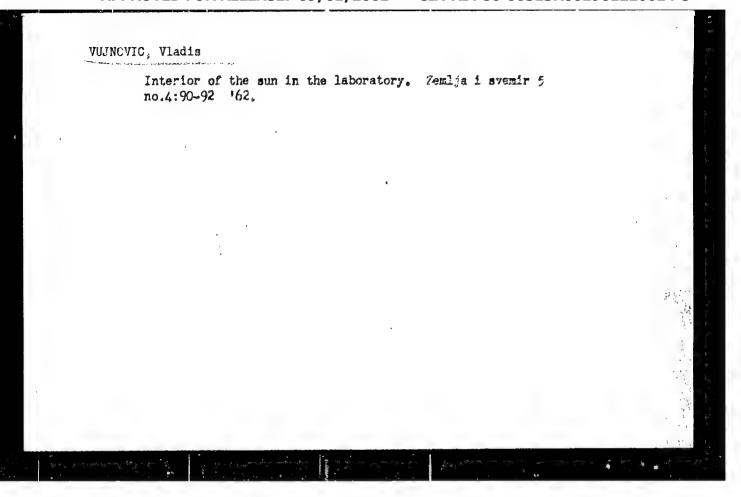
Measuring the noise in power transformers. Fnergija Erv 13 no.7/8:216-223 64.

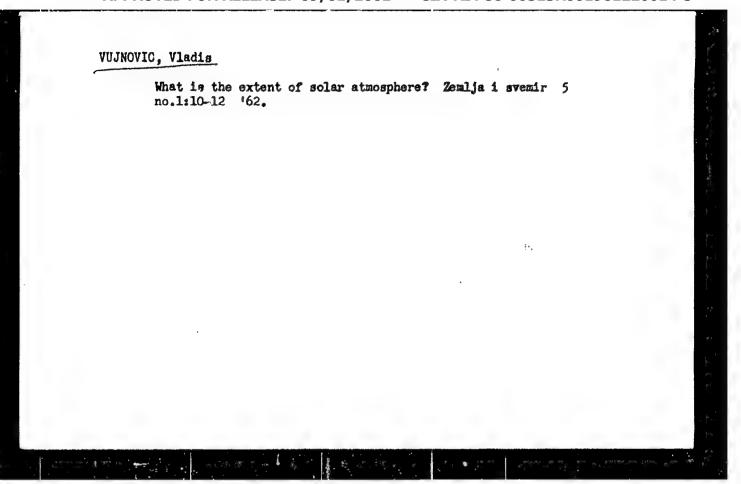
1. Institute of Electric Industries, Zagreb, Prolederskih brigada 37.

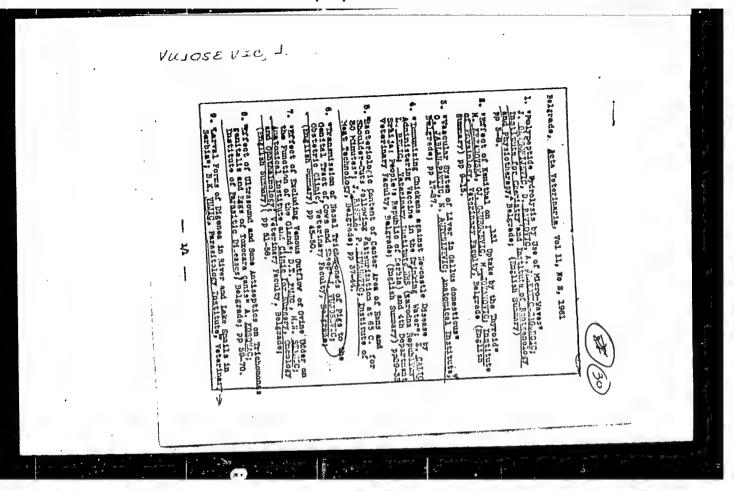
VUJNCVIC, Vladis (Zagreb)

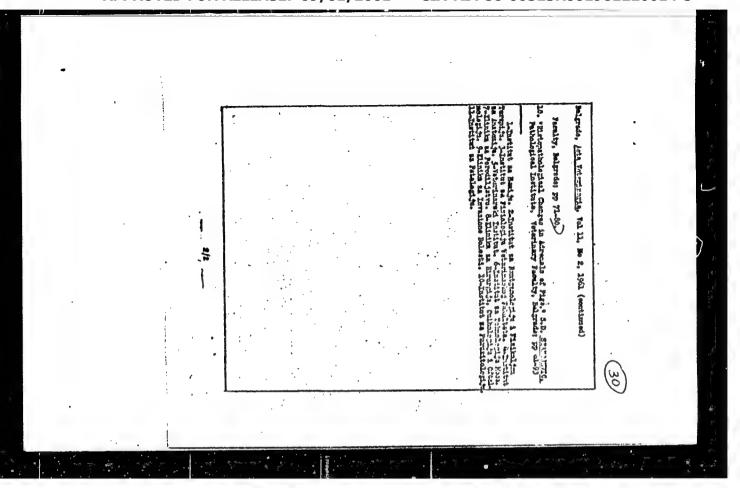
Dissolution of hydrogen spectra! lines at higher ion densities. Glasmat fiz Hrv 19 no.1/2:97-11.0 '64.

1. Institute of Physics of the University of Zagreb, Zagreb.

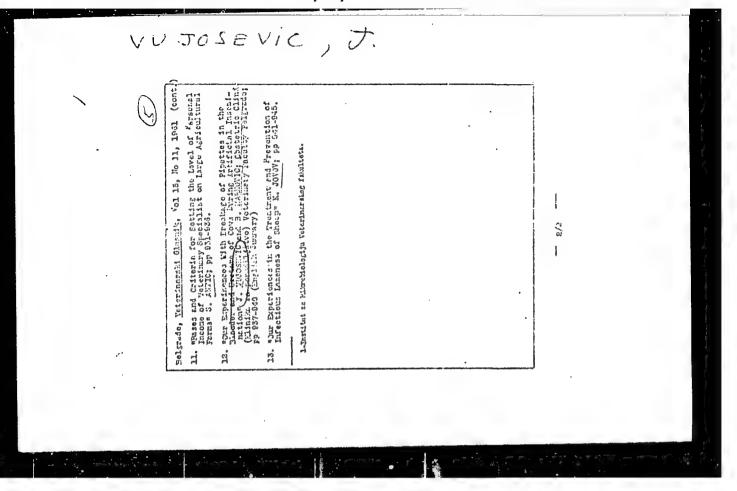






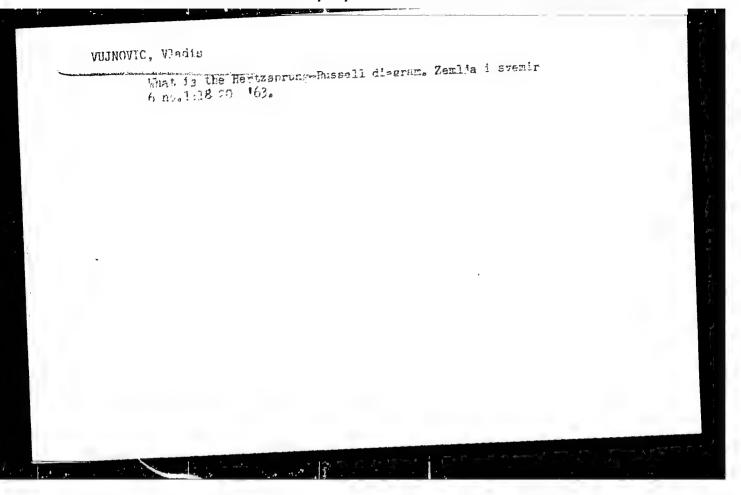


APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961220014-5"



VUJNOVIC, Vladis

The Vogt-Russell theorem on the theory of star structure.
Zemlja i svemir 6 no.2:40-43 '63.



KAPOR, Gojko. sanitetski pukovnik docent, dr.; DORDEVIC, Dragoljub, sanitetski potpukovnik, dr.; Vic. ZVIC, Krsto, sanitetsk. potpukovnik, dr.

Psychiatric aspects of absence without leave by the military personnel. Vojnosanit. pregl. 22 no.1:7-10 Ja '65.

YUGOSLAVIA/Diseases of Farm Animals. Diseases Caused by Protozca

Abs Jour: Ref Zhur-Biol., No 3, 1958, 12285.

Author : Vujosevic, I.

Inst :

: Comparative Test Reports of Certain Media in the

Title : Comparative Test Reports of Certain Diagnosis of Trichomonosis in Eulls.

Orig Pub: Veterinaria (Jugosl.), 1956, 5, No 2-3, 376-380.

Abstract: Tests were made of trichomonades survival time in

prepucial washings, which were all carried out on the same bulls afflicted with trichomonosis, namely, with the physiol. solution (I) prepared ex tempore; with the "elective liquid" according to Dirmhofer (II); and with the glucophosphatic dilutor according to Milov-

and with the glucophosphatic time of trichomonades in anov (III). The mean survival time of trichomonades in I and III was 3 days, and in II, 8 days. II also has

card : 1/2

YUGOSLAVIA/Diseases of Farm Animals. Diseases Caused by Protozoa.

Abs Jour: Ref Zhur-Biol , No 3 1958, 12285

the advantage of keeping its effectiveness for 3 months. Presence of urine and feces cuts the time of the trichomonades survival in tests sharply, regardless of the liquid used for washings.

Card : 2/2

### YUGOSLAVIA

VULOSEVIC, J.; DJURICKOVIC, S.; and PETROVIC, Z., Clinic for Obstetrics (Klinika za Porodiljstvo) [College of Voterinary Medicine, Belgrade]

"Experimental Infection of the Nasal Cavity of Swine with Trichomonads From the Nasal Cavity of Piglets and Trichomonas Genitalis (Mazzanti 1900)"

Belgrade, Acta Veterinaria, Vol 16, No. 3, 1966; pp 209-215

Abstract [English summary modified]: Study in 12 piglets aged 3 to 4 weeks artificially inoculated with trichomonads from the genital tract of cows or with trichomonads from nasal cavity of other piglets. Results indicate that both nasal and vaginal bovine trichomonads as well as even intestinal trichomonads in swine may all be essentially the same parasite and able to adapt themselves to any of these locations. 2 Yugoslav, II Western references. Manuscript received 5 Sep 65.

1/1

VUJOSEVIC, Krato, sanitetski potpukovnik, dr.; KAPOR, Gojko, sanitetski pukovnik, dr.

Patterns of alcoholism and the premorbid personality of alcoholics in the army. Vojnosanit. pregl. 21 no.12:771-774 D'64.

VUJOSEVIC, Krsto, sanitetski potpukovnik dr.; KANDIC, Branko, sanitetski pukovnik doc. dr. grbESA, Branko, sanitetski potpukovnik doc. dr.

Neurological and psychic distartances after cardiac arrest during general anesthesia. Vojnosanit. pregl. 19 no.10:704-706 0 '62.

(HEART ARREST) (ANESTHESIA, INHALATION)

(NEUROLOGIC MANIFESTATIONS) (MENTAL DISORDERS)

VUJOSEVIC, Krato, samitetski potpukovnik, dr.; bombevic, Lenguijat, samitetski major dr.

A case of adolescent schizophrenic psychosis following head injury. Vojnosanit Pregl. 20 no.11:723-725 N 163.

### VUJOSEVIC, Krato

Wallenberg's syndrome. Some observations on the eticlogy, course and variants with 6 case reports. Med. pregl. 18 no. 3:109-112 '65.

1. Klinika za zivcane i dusevne bolesti VMA, Beograd (Nacelnik Klinike: Sanitetski pukovnik prof. dr. Branko Kandic).

CIA-RDP86-00513R001961220014-5

VUJOSEVIC, Luka, asistent (Beograd, 27. marta 80)

Deviation center of a rigid body with variable mass in relation to the axis and its dynamic meaning. Tehnika Jug 18 no. 8: 1407-1410 Ag 163.

1. Masinski fakultet Univerziteta u Beogradu.

STOJANOVITCH, R. [Stojanovic, R.]; VUJOSHEVITCH, L. [Vujosevic, L.]

Couple stress in non-Euclidean continua. Publ Inst math SANU 2(16):71-74 '62 [publ. '63]

1. Department of Mechanics, Faculty of Sciences, University of Belgrade (for Stojanovic). 2. Department of Mechanics, Faculty of Mechanica Engineering, University of Belgrade (for Vujosevic).

RASOVIC, Ljubomir; DJAJA, Vera; VUJOSEVIC, Milorad; ISVANESKI, Milorad

Pulmonary fibroma. Srpski arh. celok. lek. 90 no.6:589-598 Je 162.

1. II hirurska klinika Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr. Vojislav Stojanovic. Patoloski institut Medicinskog fakulteta Univerziteta u Beogradu Upravnik: prof. dr. Zivojin Ignjacev. (LUNG NEOPLASMS) (FIBROMA)

S

VUJOSEVIC, T.

"Health institutions for social security." p. 32. (Socijalna Folitika. Vol. 3, no. 6, June 1953. Beograd.)

SO: Monthly List of East European Accessions, Vol. 3, no. 6, Library of Congress, June 1954.

CIA-RDP86-00513R001961220014-5" APPROVED FOR RELEASE: 09/01/2001

AMTIC, R.; DORDEVIC, B.; VUJKOVIC, P.; DELOVSKI, D.; KUZMANOVIC, B.; LALIC, M.; MEDEDOVIC, V.; STANKOVIC, R.

Subendocardial infarct; clinical aspects and electrocardiographic diagnosis. Acta med. iugosl. 9 no.2-3:213-242 1955.

1. IV Interna klinika Medicinskog fakulteta u Beogradu.
(MYOCARDIAL INFARCT,
subendocardial, clin. manifest. & ECG. (Ser))

## VUJKOVIC. Petar

Trilene in clinical practice. Srpski arh. celok. lek. 83 no. 5-6:674-677 May-June 55.

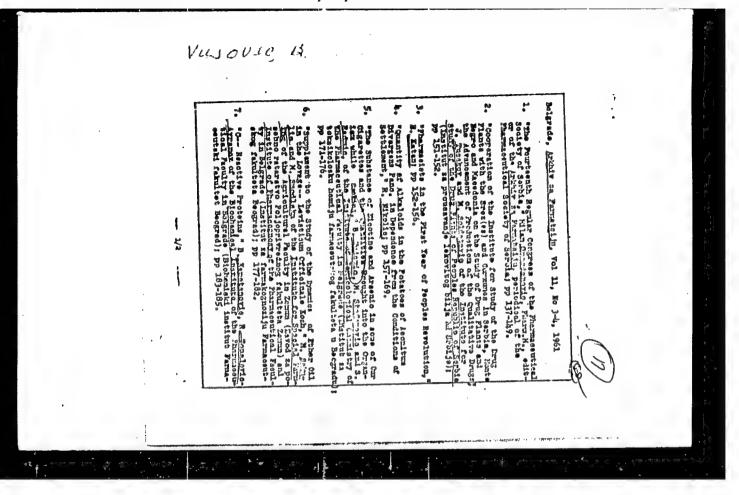
1. I Hirurska klinika Medicinskog fakulteta u Beogradu.
Upravnik: Milivoj Kostic.
(TRICHLOROETHYLENE, ther. use.
in anesth. (Ser))

STOJANOVITCH, R.; DJURITCH, S.; VUJOSHEVITCH, L.

Finite thermal deformations. Archiv mech 16 no.1:103-103

1. University, Belgrade.

164.



### "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961220014-5

VUJOVIC

SURTIAME (in caps); Given Names

Country: Yugoslavia

Academic Degrees:

Affiliation: Institute for Toxicological Chemistry of the Pharmaceutical

Faculty (Institut za toksikolosku hemiju Farmaceutskog XXXXXXX

Fakulteta), Belgrade

Sources Belgrade, Arhiv za Farmaciju, No 2, 1961, pp 123-127.

\*Influence of Ptomaine on the Sensitivity of the Specific Reactions Data:

of Alkaloids."

Authors:

VMOKRANJAC, Momcilo, Professor Dr. VUJOVIC, B.

PROTIC, Mihailo, doc.d-r; VUJOVIC, Mihailo, d-r

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Measuring spherical surfaces of tapered rollers for antifriction bearings by optical spherical gages. p. 301.

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25(6)

CZ/30-59-9-4/20

AUTHOR:

Vujta, Vlad., Engineer

TITLE:

The Control of Tapered Bearing Rollers With Optical Spherical Gauges

PERIODICAL:

Jemmá Mechanika a Optika, 1959, Nr 9, pp 301 - 303 (ČSR)

ABSTRACT:

The author describes a new method for more effective control of the global surfaces on tapered rollers, shown in Figure 1, with control gauges. It is suitable for verification of the geometrical shape of the tapered surface. Controls are possible at monochromatic light as well as at day light, however, only highly finished surfaces can be measured. This method, suggested by Výzkumný Ustav pro Váliva Ložiska (Research Institute for Tapered Roller Bearings) in Brnc, was tested by Ustav pro Výzkum Optiky a Jemné Mechaniky (Institute for Research of Optics and Precision Mechanics) in Přerov. The optical spherical gauges, used in the tapered roller bearing industry, were produced in the "Meopta" People's Enterprise in Přerov. Control of a tapered roller with an optical gauge is illustrated in Figure 2. Method of controlling a tapered roller with a gauge too large is shown in Figure 3 and with a gauge too small in Figure 4. Armulf's formulae (2) and (3) are applied for evaluating the control results. This control method showed that the

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global tapered roller surfaces are not exactly spherical and surfaces with 3, 4, 5, 6 or 7 climaces, as shown in Photographs 1 = 5, were found. The measuring inaccuracy  $U_{\Delta R}$  is calculated with the aid of the formula  $U_{\Delta R} = \frac{\pm}{4} \frac{\lambda}{\lambda^2} \Delta K$ , (5), in which  $\lambda$  stands for wave length of light and  $\Delta K$  is the degree of inaccuracy of interference circle determination. Similar results were obtained by applying this method to the control of barrel-shaped rollers. There are: 4 diagrams and 5 photographs.

ASSOCIATION: VUVL (Research Institute for Tapered Roller Bearings), Brno.

SUBMITTED: April 15, 1959

Card 2/2

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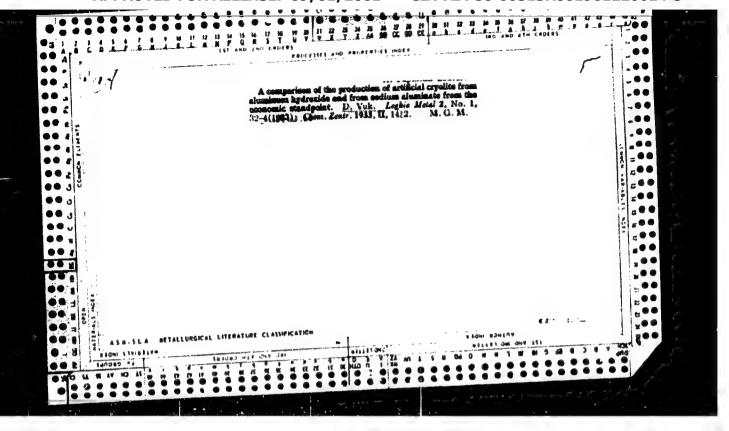
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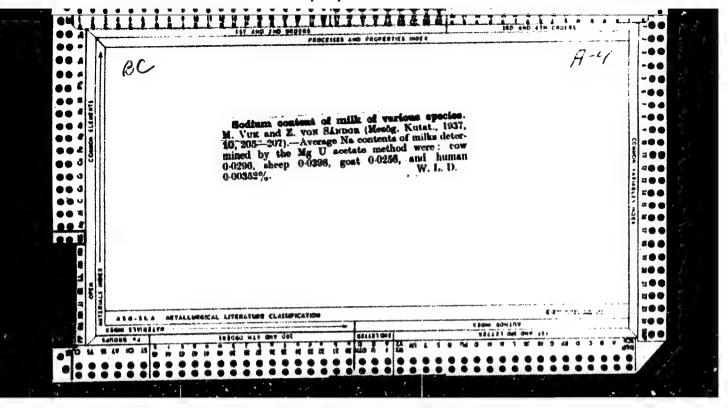
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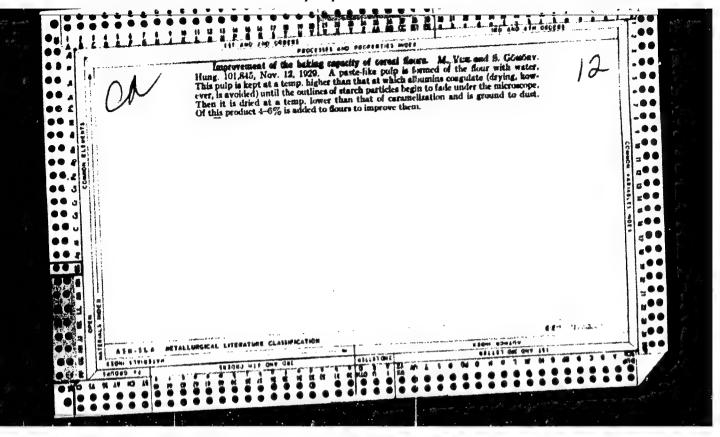
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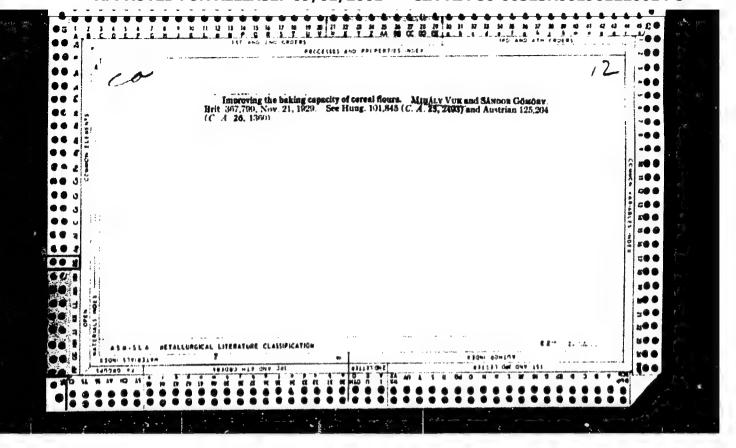
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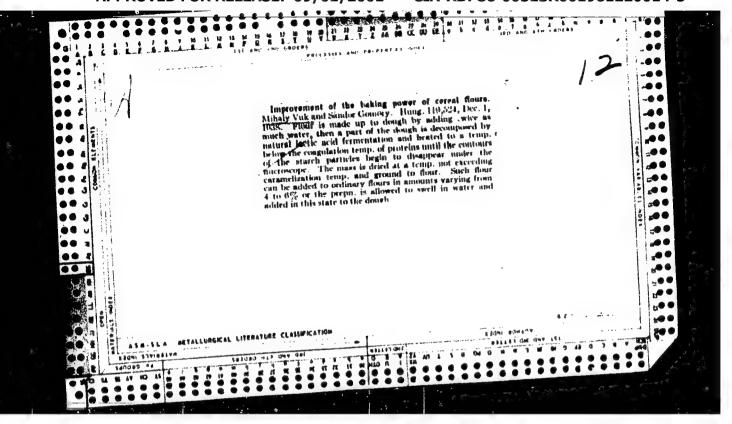
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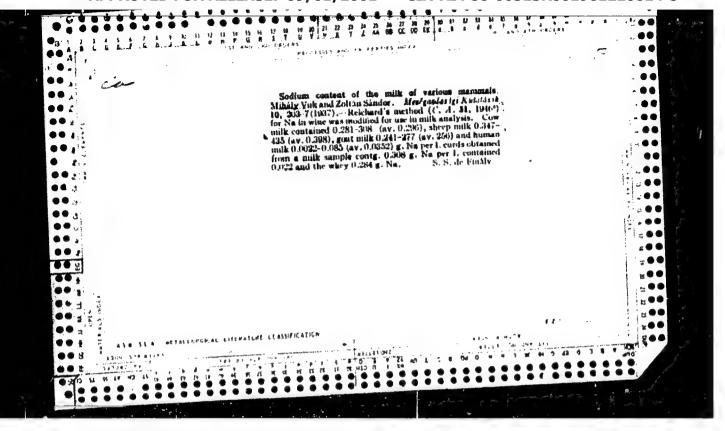
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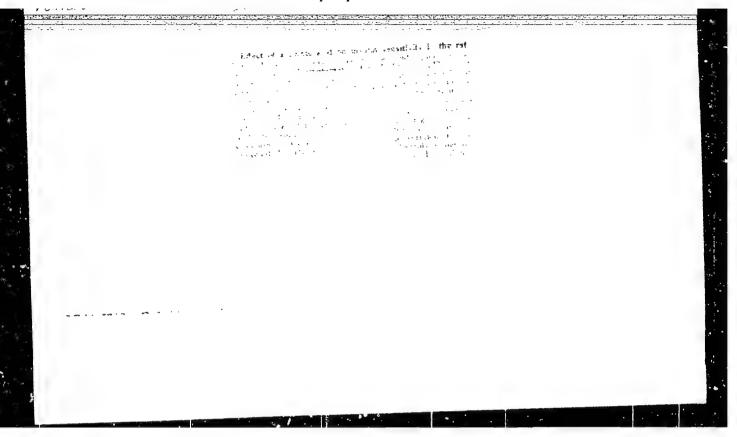
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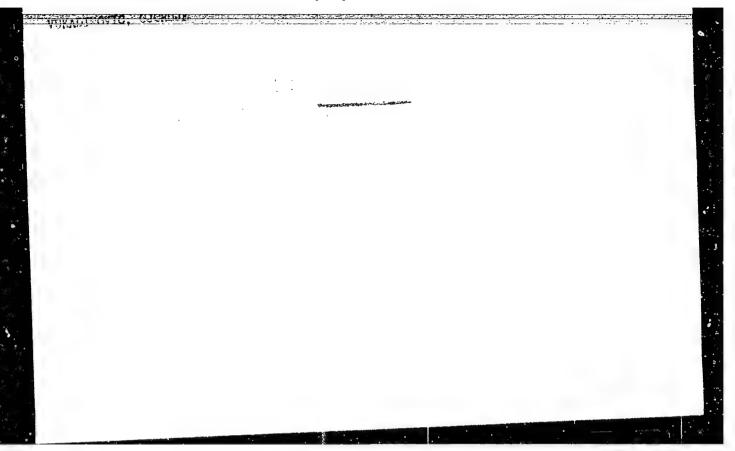
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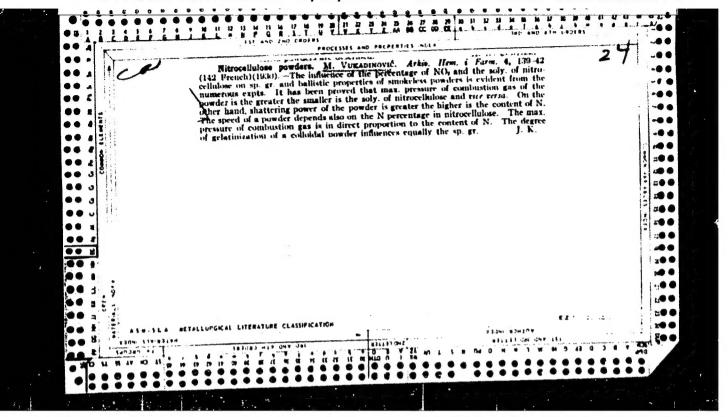
Abstract: Review of special colloquium by author, outlining studies in the Western literature in ergonomics and time-motion research, with some data also about a Yugoslav study with 760 respectively 1040 workers in the plants "Goran" amd "Rade Koncar", pertaining both to work efficiency and screening of workers with cardiovascular and other diseases.

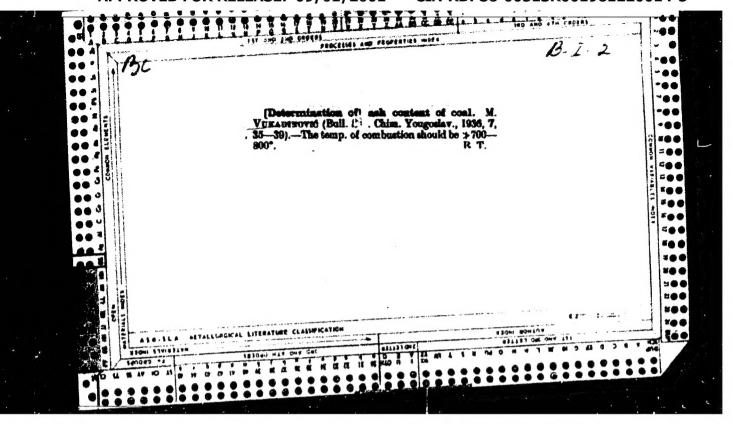
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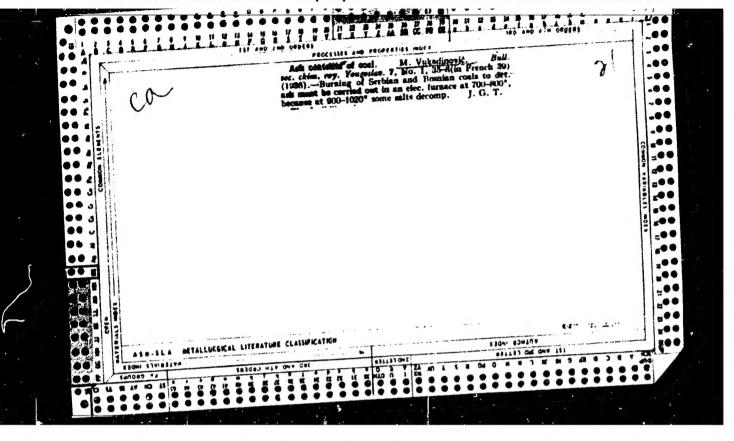
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